

November 3, 1999

99-RF-04297

Distribution DOE, RFFO

MEETING NOTES FOR BUILDING 707 EXTERNAL SCOPING MEETING HELD ON OCTOBER 14,1999 - TMW-007-99

PURPOSE OF THE MEETING:

The meeting was held to begin the external scoping process for Building 707 Cluster **Decommissioning Closure Activities**

2.0 AGENDA

•	INTRODUCTION	TJ Wirth
	Meeting Purpose	
	Project Purpose	
•	PROJECT TEAM & ORGANIZATION	TJ Wirth
•	FACILITY BACKGROUND AND HISTORY	TJ Wirth
	List of Cluster Buildings and Anticipate Facility Type	
	Known or Anticipate Facility Hazards	
•	2006 CLOSURE STRATEGY	TJ Wirth
	MISSION ACTIVITIES (Current and Ongoing)	TJ Wirth
	EACTIVATION ACTIVITIES	TJ Wirth
•	BREAK	
	ECOMMISSIONING ACTIVITIES	Pete Sanford
	NVIRONMENTAL RESTORATION ACTIVITIES	Pete Sanford
•	PROJECT ISSUES AND UNCERTAINTIES	TJ Wirth
•	NEXT STEPS	TJ Wirth

3.0 DISCUSSION ITEMS:

• Introductions were made and TJ Wirth addressed the purpose of the Scoping Meeting and its agenda. Copies of the handouts and a typed copy of the attendee list are attached to the administrative record copy of these minutes and are available on request. The presentation generated numerous comments and raised several issues that are summarized in Section 3.

ADMIN RECORD

Kaiser-Hill Company, L.L.C.

Courier Address: Rocky Flats Environmental Technology Site, State Hwy. 93 and Cactus, Rocky Flats, CO 80007 • 303.966.7000 Mailing Address: P.O. Box 464, Golden, Colorado 80402-0464 B707-A-000001

- The project team and organization, including needed support from other State agencies and the Defense Nuclear Facility Safety Board (DNFSB), were discussed. Names were provided accordingly.
- TJ Wirth discussed the facility's background and history including the inventory of buildings and their types along with the known hazards.
- A discussion of the overall Building 707 2006 Closure Strategy, including ongoing mission activities and deactivation activities was held. The purpose of these discussions was to provide all present an overview of the activities currently going on within the facility and how they interact with Decommissioning activities. This also provided background on how the Decommissioning "Sets or Modules" were established in the facility. A current high-level 2006 schedule was provided. It was noted that Building 731 was to be added to the cluster.
- Pete Sanford presented the Decommissioning Strategy for Building 707 which included a series of slides covering the general project decommissioning scope, the Work Breakdown Structure (WBS) and how it ties into the Integrated Work Control Program (IWCP) work packages, which are the basis for the work.
- Fiscal Year (FY) 2000 Decommissioning schedule and key FY00 Decommissioning activities were discussed in detail.
- Key Project Decommissioning Strategies were proposed and discussed at length.
- A summary of the Building 707 Closure Project issues and uncertainties were summarized for the group and after a brief question and answer session, TJ Wirth adjourned the meeting. Questions and responses arising from the presentations are summarized below.

4.0 QUESTIONS AND ISSUES:

- The DNFSB Products of Combustion (POC) needs to be identified. The Department of Energy (DOE) provided the POC to TJ Wirth during the meeting.
- Steve Tarlton, Colorado Department of Health and Environment (CDPHE), inquired about the status of the various Rocky Flats Cleanup Agreement (RFCA) Standard Operating Protocols (RSOP) and their relationship to the Building 707 Decommissioning Operations Plan (DOP). Pete Sanford stated that the RSOPs are still under development and, depending on the timing of the final approval of one or more of the RSOPs, they may be incorporated into the DOP by reference. The level of information in the DOPs versus that provided in the RSOPs will be a topic of further discussion.
- Edd Kray, CDPHE, expressed concern over the extent of the proposed Reconnaissance Level Characterization Report (RLCR) and the approach that characterization data for the ancillary buildings will not be included in the DOP. Kaiser-Hill's (K-H) response and approach is to assume that these structures will be Type 1 and if they ultimately turn out to be Type 2 then a change to the DOP or another decision document such as a RSOP will be put in place.
- TJ Wirth stressed the extremely tight schedule surrounding the development and approval cycle of the DOP. TJ discussed an option of sending Draft Chapters to the state as a way to facilitate the process. TJ mentioned that this discussion had already taken place with DOE and Edd Kray and there appears to be a warm reception to doing this. Edd and TJ will work out the details in a later meeting.

- Chris Gilbreath, CDPHE, asked if this means that Safe Sites of Colorado (SSOC) is the contractor. K-H responded that SSOC's current scope includes mission operations, facility management and deactivation. We are looking at various subcontracting options for decommissioning.
- Steve Tarlton, CDPHE, participated in a discussion of the Protected Area (PA) Closure schedule, asking how the process of clarifying the PA closure requirements was coming along, and if this work is delaying the building Decommissioning. Steve offered his support in expediting this process if we thought that the requirements that were going to be imposed by Headquarters were tending to be excessive.
- Chris Gilbreath, CDPHE, questioned the number of Size Reduction facilities planned for the building and expressed concern over any reliance on robotics since time is running out for the use of these facilities. K-H anticipates the establishment of one major Size Reduction Facility in Module G with the option of smaller less complicated systems in the 2nd floor area. In-place, Size Reduction areas will probably also be required for those gloveboxes and pieces of equipment that are too complicated or too large to be moved to G Module. A series of meetings is scheduled over the next several weeks to begin the process of coordinating K-H Size Reduction efforts with the Size Reduction Design Team with the other facilities undergoing or starting to plan size reduction activities. This meeting will allow the team members to better define and answer the size reduction questions, which effect the projects.
- Steve Tarlton expressed his support for a centralized Size Reduction Facility if K-H believes that's the best way to go.
- A discussion concerning the content of the DOP regarding the connection between the Decommissioning and Environmental Restoration activities was held. K-H was reminded to think about ER characterization issues early in the process and an example of subsurface contamination attributable to footing drain systems was cited. K-H responded that Environmental Remediation activities are scheduled to begin early in the project but that K-H will revisit if they are early enough.
- Pete Sanford, SAIC/K-H, discussed the first bullet on slide 46 which suggests an approach to remove gloveboxes from the hazardous waste category based on characterization. Chris Gilbreath, CDPHE, suggested that discussions be started with Waste Isolation Pilot Plant (WIPP) and a proposed procedure be submitted for review ASAP.
- Edd Kray, CDPHE, again questioned the scope of the RLCR and feels that all the data needed to plan the complete decommissioning and restoration work should be in hand before any work is designed. Pete Sanford stated that the current plan puts this level of characterization as part of the IWCP development program. Edd stated that this approach is not acceptable to CDPHE. Fred Gerdeman, DOE, will raise this issue within DOE and then schedule a meeting between DOE and Environmental Protection Agency (EPA). Steve Tarlton, CDPHE, indicated that an overly-detailed RLCR was not what CDPHE desired, and that the RLCR that supported the DOP would not have to be as detailed and complete if CDPHE were allowed to participate more actively in the "in process characterization" as work packages were developed.

- Judy Bruch, CDPHE, requested clarification on the second bullet on slide 48 relating to water used during decontamination and demolition activities, clarifications relating to storm water run off, subsurface plumes and the effect on the excavation during removal actions. Laurie Gregory-Frost (E2/K-H) stated that the procedures being used now at other on site locations will be implemented on this work along with the modifications required by lessons learned.
- Edd Kray, CDPHE, stated that he prefers to have the building demolition plan as part of the DOP. K-H stated that the current plan is to issue the Demolition Plan as a RSOP.
- Edd suggested that the DOP be clear as to what we know, what we don't know, and what decisions are being deferred to a later date.
- Chris Gilbreath, CDPHE, asked about the status of the C Pit or basement area after demolition is completed and was told that this area will remain, minus the equipment and associated utilities.
- Judy Bruch, CDPHE, asked how much water may be used in the high-pressure water systems and what is the plan for treatment of this water both during and after Building 374 Decommissioning. Fred Gerdeman, DOE, is working on the site treatment program to be implemented after Building 374 is decommissioned and will advise on the outcome of that effort. K-H also responded that K-H is aware that Building 374 will probably need to come down before the need for water treatment is no longer an issue.
- A suggestion was received to establish a series of working meetings to be held with the regulators to communicate progress, changes, and issues. TJ Wirth will establish this meeting schedule.

5.0 **ACTION ITEMS:**

 Schedule a meeting between DOE and EPA to discuss issues surrounding the characterization process and the role of the RLCR.

2. Establish a series of working meetings to be held with the regulators to communicate progress, changes, and issues.

3. Identify the DNFSB, POC Status: Complete - Don Owens is the DNFSB POC.

4. K-H to re-review start date of ER activities.

5. Set up meeting to discuss removal of gloveboxes from the hazardous waste category based on characterization.

Actionee: Fred Gerdeman, Complete

November 5,1995)

Actionee: TJ Wirth

Actionee: TJ Wirth

Actionee: Pete Sanford Actionee: Pete Sanford

Best Available Copy

ATTENDEES:

SAIC/K-H	J. Lehew	Tenera/K-H
CDPHE	Randy Leitner	PE/K-H
SSOC	C. Madore	ECS/K-H
CDPH王	G. Nishimoto	DOE
DOE	L. Norland	Tenera
CDPHE	J. Paynter	E2
E2/K-H	L. Resler	PMTECH
DOE	P. Sanford	SAIC/K-H
SSOC	T. Scott	PAI/TRUT
K-H/PE	S. Tarlton	CDPHE
MK/RMRS	D. Ward	SSOC
CDPHE	L. Williams	K-H
	CDPHE SSOC CDPHE DOE CDPHE E2/K-H DOE SSOC K-H/PE MK/RMRS	CDPHE Randy Leitner SSOC C. Madore CDPHE G. Nishimoto DOE L. Norland CDPHE J. Paynter E2/K-H L. Resler DOE P. Sanford SSOC T. Scott K-H/PE S. Tarlton MK/RMRS D. Ward

T.J. Wirth
Project Manager
Building 559/707 Closure Project
Kaiser-Hill Company, L.L.C.

PS:kjs

Enclosure: As Stated

Distribution

Henry Dalton
John Hale
Dave Hicks
Joseph Legare
Matthew McCormick
Greg Nishimoto

Add COPHE to Dist

Best Available Copy

BUILDING	707 - CLOSI	JRE PF	ROJEC	Т	-
EXTERNAL SO	OPING MEETIN	G - Octo	ber 14, 1	999	
NAME	COMPANY	PHONE	PAGE	FAX	BLDG
Robert Brandt	SAIC/K-H	6037		3090	130
John Lehew	Tenera/K-H	7508	212-3284	5535	111
Edd Kray	CDPHE	2115	280-6361	5449	T124A
Dick Fox	CDPHE	2793	990-7054	5449	T124A
Mike Conilogue	SSOC	6152	212-4466	4721	371
Steve Tarlton	CDPHE	692-3423			Offsite
Chris Gilbreath	CDPHE	692-3371		759-5355	T124A
Doug Herrick	SSOC	5470	212-5408	6208	705
Tom Scott	PAI/TruTech	2093	212-5458	3090	130
John Jones	MK/RMRS	4454			T893B
Fred Gerdeman	DOE	6203		4775	460
John Hale	DOE	3450		4775	460
Lee Norland	Tenera/K-H	5223		3090	130
David Ward	ssoc	5938	212-5878	7553	750
Les Resier	PM Tech/SSOC	7041		4016	T750D
Jeff Paynter	E2/SSOC	8220	212-4199	4016	T750D
Mark Heser	K-H/P-E	2238	212-3603	3598	T130C
Luke Williams	К-Н	3389	212-3287	5065	111
Peter Sanford	SAIC/K-H	2762	461-2363	3090	130
Gregg Nishimoto	DOE	7022		2497	460
Judy Bruch	CDPHE	692-3428		757-5355	
Laurie Gregory - Frost	E2/K-H	3681	212-1980	5001	T130C
Catherine Madore	ECS/K-H	3692	212-1779	5001	T130C
TJ Wirth	К-Н	4894	212-3488	5336	111

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

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Date Routed: _	November 1, 1999	Reply by:	
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Originator: _	Pete Sanford	<u> </u>	
Department: _	D&D Closure Projects		
Typist:	Kathleen J. Sharp		
Telephone:	303-966-2762		
Location:	Bldg. 130		
Letter No:	TJW-007-99		
Reply To:		Action Due Date:	
Subject:	Meeting Notes for Building 70	7 External Scoping Meeting held on 10-14-	 _99
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For Signature B	sy:T.J. Wirth		_
Reviewed and a	approved by:		
Route To	Department	; Approved Date	
Kathy Luce	X · D	1/2/99	
Pete Sanfor			_
T.J. Wirth			_
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2. Include any	pertinent references and properly l	abeled attachments/enclosures.	
3. Left side of	folder:	Right Side of Folder:	
	opies, e.g., blind appropriate sign es	Original letter	
References	(if any)	Attachment/Enclosur	·e
Other backu	ıp material		

OCTOBER 27, 1999

TO: DISTRIBUTION

FROM: TJ WIRTH, PM, B559/707 Closure Project, B111, x4894, pager212-3488

SUBJECT: MEETING NOTES FOR BUILDING 707 EXTERNAL SCOPING MEETING HELD ON OCTOBER 14,1999

ATTENDEES:

R. Brandt	SAIC/KH	J. Lehew	Tenera/KH
J. Bruch	CDPHE	C. Madore	ECS/KH
M. Coniloque	SSOC	G. Nishimoto	DOE
D. Fox	CDPHE	L. Norland	Tenera
F. Gerdeman	DOE	J. Paynter	E2
C. Gilbreath	CDPHE	L. Resler	PMTECH
L. Gregory-Frost	E2/KH	P. Sanford	SAIC/KH
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D. Herrick	SSOC	S. Tarlton	CDPHE
M. Heser	KH/PE	D. Ward	SSOC
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Actionee: Fred Gerdeman, DOE

Actionee: TJ Wirth

Actionee: TJ Wirth

Actionee: Pete Sanford Actionee: Pete Sanford Distribution

(individuals on Site email will receive electronic copies; hard copies available on request)

Distribution

Anderson, Scott

Badgett, Sam

Bradford, Jeff

Brandt, Robert; Brooks, Laura; Butler, Lane; Cappello, Michael; Carman, Mac; Davidson, Debby; DelVecchio, David; Eden, Anthony; ; Flora, James; Gregory-Frost, Laurie; Herrick, Douglas; Heser, Mark; Holifield, Al; Jones, John; Kennedy, Colburn; Lamb, Frank; Law, John; Lehew, John; Leitner, Randy; Lewis, Mark; Madore, Catherine; ; Nesta, Stephen; Norman, Rich; Patnoe, Carol; Paynter, Jeff; Phillips, Florence; Poling, Jeanne; Renier, Frank; Rowzee, Dale; Sanford, Peter; Scott, Tom; Sherrill, Dee; Smith, Bradley; ; Swenson, Peter; VanMeighem, Jeff; Walton, Brian; ; Dalton, Hank; Hale, John; Hicks, Dave; Kray, Edd; Mark Aguilar (EPA); McCormick, Matthew; Nishimoto, Gregg

Cc: Timothy Rehder, FPA
??? Gunderson Copper
Joseph Legare Dog
David Shelton
Fulton, John;
Ferrera, Kenneth
Wirth, TJ

Mathis, Brian Stevens, Jeffrey

Administrative Record with attachments

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BUILDING 707 - CLOSURE PROJECT

EXTERNAL SCOPING MEETING - October 14, 1999

NAME	COMPANY	PHONE	PAGER	FAX	BLDG
ROBERT BRANDT	SAICI	b# 6037			130 -
JOHN LETTEN	TEXA/KH	7508	212-3284	5535	(//
EDO KRAY	COPHE	2115	280 - 6361	5449	
Dick Fox	CDPHE	2793	990-7054		1
MIKE CONILOGUE	550C	6152	212-4466	4721	37/
Hare Taylton,	CDPHQ	692-3423	White		offsite
Chris Gilbreath	COPHE	692-3371		757-5	7-124A
LOUG HERRICK	550C	966 5470	212-5408	166.6208	
jan Jeon	PAT/THURLY		212-5458	966.3090	130
John Jones	MY/RMRS				T873B
FredGerdeman	DSE	966-6203		4775	460
John HALL	DOF	966-3450		4775	460
LEE STORLAND	TENERA	966-5773	0.0 000	3090	130
NAVIA WARD	550c		212 <i>-257</i> 8	1	750
LES RESLER TEXF PAINTEN	PM TECH	<u> 966-7041</u> 966-8220	212-4199	4016	7750D
MARK HESER				4016	7 2500
Luto William S	+	966-2238	212 3603	359B 5065	T130C
	SAIC/K-H				B /30
GREGG NISHIMOTO	DOE	966-2762	461-2363	3090 2 1 97	B460
JUDY BRUCH	CDPHE	692-3478		757-539	
Laurie Gregory-Frost	EZ/KH	966-3681	212-1980	5601	7130C
CATHORING MADORE	ECS/K-H	3692	2/2-1779		7130C
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Kaiser ◆ Hill Company, L.L.C.
Rocky Flats Environmental Technology Site
10808 Highway 93, Unit B
Building 130
Golden, CO 80403-8200

Fax Transmittal Sheet

Date: (8/99
To: John Hale
Company: DOE
Fax: 2497
Phone: 345-0
From: Pete Sanford
Company: K/H/SAIC
Fax: 3090
Phone: 2762
☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle
Message:
John - I I said you wanted the
attendarce sheet
Pet
THIS FAX CONTAINSPAGES INCLUDING COVER SHEET.

B707 Closure Project 2006 Closure Strategy

Kaiser-Hill, L.L.C TJ Wirth

October 1999



October 1999 TJ Wirth

KAISER-HILL COMPANY, LLC

B707 CLOSURE PROJECT AGENDA

INTRODUCTION

TJ Wirth

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TJ Wirth

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2006 CLOSURE STRATEGY

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BREAK

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- **NEXT STEPS**

Pete Sanford Pete Sanford TJ Wirth **TJ Wirth**



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B707 CLOSURE PROJECT Introduction

MEETING PURPOSE

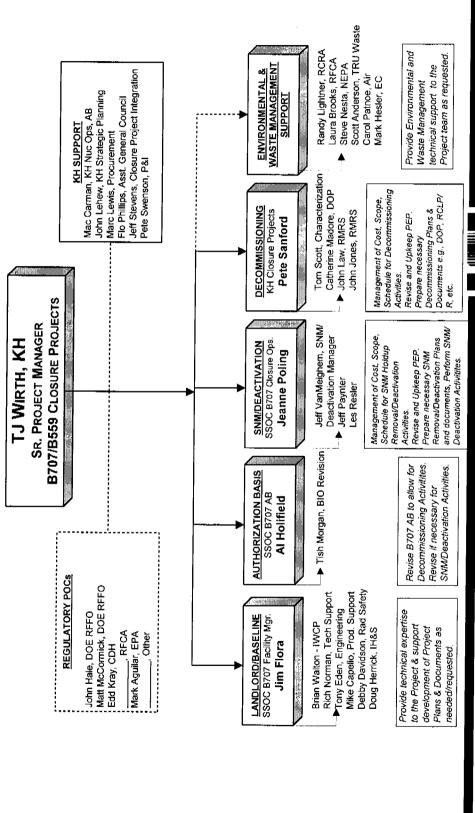
To begin the Internal & External Scoping Process for B707 Cluster Decommissioning Closure activities.

PROJECT PURPOSE

To plan and execute the clean up and closure of B707 Cluster undergoing Decommissioning and in accordance with external facilities using lessons learned from previous RFETS facilities rules and regulations and internal policies and procedures governing these activities.

KAISER-HILL COMPANY, LLC

B707 CLOSURE PROJECT Project Team & Organization





Facility Background & History **B707 CLOSURE PROJECT**

- Building 707 was used to perform all metallurgical and assembly processes for manufacturing plutonium components.
- casting, rolling, forming, machining, assembly and testing of materials. Different modules located in Building 707 housed operations such as
 - Plutonium items were stored in vaults such as the X-Y Retriever.
- Special Nuclear Materials (SNM) were left in place without any handling or repackaging pending resumption of nuclear operations in 1989.
- Production mission was formally terminated in 1992
- stabilizing and repackaging the SNM for storage and shipment and will Resumption efforts have been underway to complete processing, continue in Building 707 through approximately 2002
- B707 contains some of the largest amount of SNM Holdup at RFETS.

B707 CLOSURE PROJECT B707 Cluster Facilities & Anticipated Facility Type

707 Cluster	FACILITY*	FT2	TYPE	COMMENTS
	707, PU manufacturing building	196,930	က	Cluster is located
	731, process waste pit (707)	506	2	over an IHSS
	708, compressor building	7,460	_	
	711, cooling tower	1,900		172 gloveboxes
	711A, cooling tower emergency diesel pump	2,040		in 707
	718, service building	294		
	707T, tomographic gamma scanner system trailer	A/N		
	708S, skid-mounted breathing air compressor	A/N		
	Tank 206, carbon tetrachloride storage	N/A	~	
	Tank 208, liquid argon storage	V/N		
	Tanks 209-221, helium storage	V/N		
els.	Tank 223, liquid nitrogen storage	∀ Z		
	Tank 284, helium storage	∀ Z		
	Tank 290, UST diesel blend	₹ Z		
	Tanks 324-325, diesel storage	A/N		
	Tank TK-16, AST diesel storage	∀ V		
	**list derived from the FDPM			
!				



B707 CLOSURE PROJECT List of B707 IHSS & PACS

- Part or all of the following IHSSs are within the area of this cluster:
- 121 Old Process Waste Lines
- 123.1 Valve Vault #7
- 123.2 Valve Vault w. of 707
- 150.4 Rad Site NW of B750
- 150.5 Radioactive Site West of Building 707
- Part or all of the following PACs are within the area of this cluster:
- 700-1103 Leaking Transformers
- 700-1104 Leaking Transformer Building 708



Types of Known or Expected Hazards **B707 CLOSURE PROJECT**

Nuclear Materials

- Plutonium Contamination
- **Enriched Uranium**

Hazardous Chemicals & Materials

- Beryllium
- Asbestos
- **PCBs**
- Lead



B707 CLOSURE PROJECT 2006 Closure Strategy

- Critical Path for B707 Closure Is MAA Closure in FY02 Through Completion of:
- Ongoing Residue Processing
- SNM Holdup Removal
- Classified Matter Removal
- Shipping of Metal Components
- Oxide Stabilization
- Fermination of Safeguards, Minimizes "Q" Clearances, and Early SNM Holdup Removal and Deactivation Facilitates prepares the Facility for Decommissioning
- Removal, Deactivation, and Decommissioning in Parallel Key to Closure is performing Mission, SNM Holdup within the Facility.



B707 CLOSURE PROJECT 2006 Strategy (continued)

ACTIVITY *	Z006-Plan
Mission Activities (Residues)	FY01
Landlord	FY04
SNM/Hazardous Removal	FY02
Deactivation	FY02
Decommissioning	FY04
Demolition	FY05
IHSS Remediation	FY 05
Cluster Closure	FY 05

2006 Near-Term Activities (FY00/FY01) **B707 CLOSURE PROJECT**

Complete Mission Risk Reduction Activities

- Salt Residues 7/00
- Dry Repack 6/01
- Ash Residues 11/00
- SNM Shipping 9/02
- Metal Size Reduction 6/00
- Oxide Stabilization 6/00
- Drum Storage to Support MAA Closure (Ongoing)
- Drum Storage for Residue Processing (Ongoing)

Deactivation Activities begin as Mission work ends and Modules become available.

B707 CLOSURE PROJECT

2006 Near-Term Activities (FY00/FY01)

Deactivation/SNM Removal Strategy Is:

- Removal of Category I and II SNM Material and Classified Matter to Facilitate MAA Closure and Reduce Risks
- Chemicals, Organic Liquids, etc., to Complete Deactivation and Removal of Other Hazardous Material Such As Combustibles, Allow Initiation of Decommissioning

Initiated Deactivation/SNM Removal in FY99 to support MAA Closure in FY02.

- SNM Holdup Removal in Gloveboxes, Furnaces, Lathes, and Other Miscellaneous Equipment
 - Liquid Organic Material
- Classified Matter
- Loose Equipment (equipment not physically tied into Utility systems)

2006 Near-Term Activities (FY00/FY01) **B707 CLOSURE PROJECT**

- MAA Closure supports acceleration of Decommissioning activities due to;
- Decrease in Safeguards and Security,
- Need for Q-cleared D&D workers.
- Decommissioning activities can begin;
- As Deactivation Activities and Removal of SNM Holdup Material is Complete
- Modules become available.



2006 Near-Term Activities (FY00/FY01) **B707 CLOSURE PROJECT**

- Decommissioning Planning Activities Initiated in FY99
- Decommissioning Planning Activities Planned in FY00
 - Planning and Engineering Activities
- · IWCPs
- Size Reduction Facility
- Reconnaissance Level Characterization
- Decommissioning Operations Plan (DOP)
- Physical Decommissioning Activities to begin in G Module in FY01
- Demolition Planned for FY05



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2006 Near-Term Activities (FY00/FY01) **B707 CLOSURE PROJECT**

MODULE	FY99	FY00	FY01
Module A – 14 Areas	Salts/eU Decon	Salts/SNM	SNM/Deactivation
Module B - 11 Areas	SNM	SNM/Deactivation	Deactivation/Decommissioning
Module C – 8 Areas	SNM	SNM/Deactivation	Deactivation/Decommissioning
Module D – Misc Area	Dry Mission	Dry Mission/SNM	Dry/SNM/Deactivation
Module E – 8 Areas	Ash Mission	Ash/SNM Holdup	Ash/SNM/Deactivation
Module F - Misc Area	Deactivation	SNM/Deactivation	Deactivation
Module G - Misc Area	SNM/Deactivation	SNM/Deactivation	Decommissioning
Module H – Misc Area	SNM/Deactivation	SNM/Deactivation	Decommissioning
Module J − 8 Areas	Therm. Stab.	Therm/SNM	SNM/Deactivetion
Module K – 7 Areas	Dry & Size Reduction	Size/SNM	SNM/Deactivation
J/K Centerline - 15 Areas	Size Reduction/SNM	SNM	SNM/Deactivation
X/Y Retriever - 1 Area	Size Reduction/Shipping	Size/SNM	SNM
Classified Matter Rem.	×	×	
Cold Office Spaces			Descrivation
Raschig Ring Removal	×	×	X X
1st Floor Corridors			Descrition
Miscellaneous	SNM/Deactivation	SNM/Deact/ Decom	Deact/ Decommissioning
(E, 1, 9, 11, 2" FIDOI, CA ROOMS)13+	1s)13+ Areas (9 for D, F, G, H and	Areas (9 for D, F, G, H and 4 for 2nd Floor, Unknown for CA Rooms)	4 Rooms)

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2006 Module Closure Activities per FY **B707 CLOSURE PROJECT**

	FY99	FY00	FY01	FY02	FY03	FY04	FY05
Landlord	×	×	×	×	×	×	
SNM Holdup Removai	Modules G, H	Modules A, B, C, F, G, H, J, K, JK Centerline, 2 ND Floor, CA Rooms	Modules A, B, C, D, E, F, J, K, JK Centerline, XY Retriever, CA Rooms,	Modules B, C, D, E, J, K,			
Close MAA			Corridors	Mar 02			
Deactivation	Modules G, H	Modules G, H	Modules A, B, C, F, CA Rooms, 2 nd Floor	Modules A,B, C, D, E,F, G, H, J, K, Cold Offices, Classified			
Decommissioning			Modules A, G, H	Matter Modules B, C, D	Modules E, J, K, 2 ND Floor,		
					Rooms, Cold Offices		
Demolition						Feb 05	
IHSS/Closure							Aug 05

BUILDING 707 CLOSURE PROJECT 2006 CLOSURE STRATEGY FOR DECOMMISSIONING

Kaiser-Hill, L.L.C Peter Sanford

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BUILDING 707 DECOMMISSIONING TOPICS

- General Project Decommissioning Scope
- WBS
- **FY00 Schedule**
- **Key FY00 Activities**
- **Project Decommissioning Strategies**

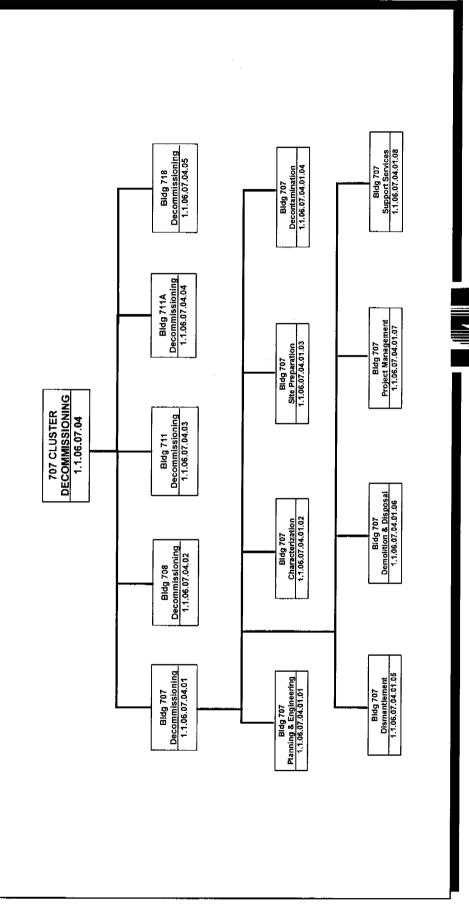


GENERAL PROJECT DECOMMISSIONING SCOPE **BUILDING 707 DECOMMISSIONING**

- Dismantlement of contaminated gloveboxes, duct, and process equipment
- Significant holdup removal from equipment and ducts
- Decontamination of structure and fixed equipment
- Demolition of the facility and the removal of the slab
- Interface with deactivation and environmental restoration

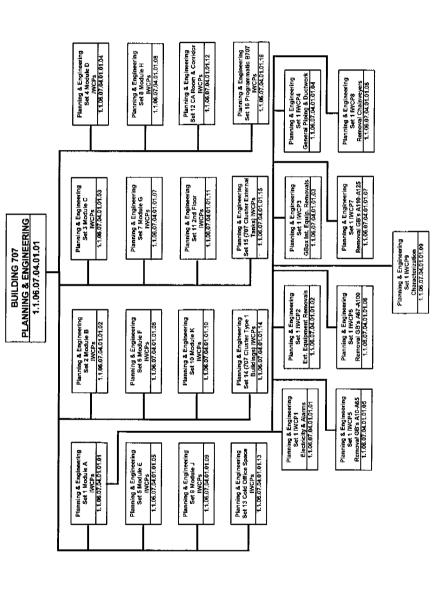


TOP-LEVEL WBS DIAGRAM (LEVEL 6/7/8) **BUILDING 707 DECOMMISSIONING**



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BUILDING 707 DECOMMISSIONING WBS DIAGRAM LEVEL 8/9



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BUILDING 707 DECOMMISSIONING FY00 SCHEDULE

22	Description Description	Dur.	Dur Comp	Start	Finish	Float	FY00 FY08 CC NO DEL JA! FEL WAL APL WAL JUL JUL AU SEL OC. NO DE	000 AP! MAI JU! JU! AU! SE!
ĕ	Create Building ROM Schedule & Cost by Set	8		27SEP99	05NOV99		Supplied of the supplied of th	
1 25	Detailed Set Walkdown by IWCP	98	9	91OCT99	31DEC99			
更	Preliminary Cost Estimate	ß	150	06DEC99	11FEB00	4	X	······································
1	Preliminary Schedule	20	ιņ	06DEC99	11FEB00	က		
16	Waste Managment Plan	30	6	03JAN00	11FEB00	4		
ě	Develop Decomm Portion of PEP (Draft)	30	6	14FEB00	24MAR00	₹		
e.	Review & Approve Project Exec. Plan (PEP)	7		27MAR00	04APR00	-		
ē	General Engineering Package	100	5	03JAN00	19MAY00			
Ē	Final Cost Estimate	40	4	22MAY00	14JUL00	2		¥ F
<u>.</u> €	Final Schedule	40	4	22MAY00	14JUL00	2		Y
١2	FY00 Budget development	920	52	17JUL00	22SEP00	2		*
음	BIO Modification	8	9	03JAN00	24MAR00			
Size	Size Reduction Engineering/Design Package	140	4	22MAY00	0105000			5
2	CHARACTERIZATION PLANNING & EXECUTION							
Perf	Perform Historical Site Assessment	89	9	16AUG99	17NOV99	-	¥	
Perf	Perform HUD & GSA Eval. & Prepare Documentation	45	4		220CT99	(7)	- T	
18	Conduct Pre-Characterization Facility Walkdown	40	4		08OCT99	-		
12	RL Characterization Package Preparation	27	2		16NOV99	T-		
Rev	Review and Approve RLC Package	5		19NOV89	25NOV99	-	- V	
8	Conduct Reconnisance Level Characterization(RLC)	70	1	26NOV99	02MAR00	-		
Pre	Prepare Reconnisance Level Charact. Report (RLC)	8	3	O3MARDO	13APR00	7		
Inter	Internal Review of the RLC Report & Sub. to DOE	28	2	14APR00	11MAY00	2		
ğ	DOE Review & Comment on the RLC Rpt.	50	ļ	12MAY00	18MAY00	14		
Res	Resolve DOE Comments on the RLC Report	50		19MAY00	25MAY00	2		X)
Sch	Submit RLCR to LRA w/Notification Letter	2		26MAY00	29MAY00	4		- *
o di	Obtain concurrence from LRA on Bidg. Type	#		30MAY00	16JUN00	4		- [X]
8	REGULATORY DOCUMENT DENEROPMENT						REGULATORY DOCUMENT DEVELOPMENT	
8	Commence Decision Document Preparations	0			24MAR00			
å	Develop Decision Document (DOP)	92	10	29DEC99	24MAY00	-		
重	Internal Review of Decision Doument (DOP)	10	-	25MAY00	05JUN00	-		X,
	Olicies School A English			٥	D&D Programs		3046.07	USIE Nevison City
	DAMJON N			Decommiss	Decommissioning of Bldgs, 707	s. 707		
	_			1				

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BUILDING 707 DECOMMISSIONING FY00 SCHEDULE

다 고	Activity Description		E E	Comp	Starty	Finish	Total	FY00 FF ON NO DEL AL EE MA AND MA HI III ALL SE ON NO DE
30090	Sub. Decision Doc. to DOE for Review & Comment	'n		+	08JUN00	143UN00	-	SEL COLLUCIONE DE MAI SEL COLLUCIONE
30100	DOE Review & Comment on the Decision Document	10	-		15JUN00	28JUN00	-	
30110	Resolve DOE DD Comments	(0			29JUN00	OSJUL00	-	
30120	Submit Draft DD to LRA	45	-		19JUN00	07JUL00	4	
30130	LRA Review & Comment on the Decision Document	ŧ	-		10UL00	28JUL00	4	
30140	Resolve the LRA's Decision Document Comments	9	-	.,	31JUL00	11AUG00	4	
30150	Issue the Decision Document for Public Commment	ç			06JUL00	12JUL00	-	r -
30160	Decision Document Public Comment Period	44	4	Ī	13JUL00	12SEP00	-	William was the professional and the professional a
30170	Decision Document Public Meeting	-			29AUG00	29AUG00	2	
30180	Prepare Decision Document Response Summary	2	-		13SEP00	26SEP00	-	
30190	LRA Approve Decision Document	co			27SEP00	03OCT00	-	
G Moditie								3.6(8.5)
70000	IWCP Precursors	40	ಶ		27MAR00	19MAY00		
70010	IWCP Development	64	₩		22MAY00	143UL00		
70020	Management Review	8	9	-	033(1),00	22SEP00		
70025	Module G Approval to Start Work	0			25SEP00			
70030	Staff Acquisition & Training	8	Ф		22MAY00	11AUG00	60	
70040	Equipment/Supplies Procurement	8	9	. (4	22MAY00	11AUG00	6	
70050	IWCP Excecution	46	-77		25SEP00	27NOV00		
C Module								CMostle
70200	IWCP Precursors	90	ъ	_	17JUL00	22SEP00		
70210	IWCP Development	20	4D	CA	25SEP00	01DEC00		
70230	Staff Acquisition & Training	99	မ	CN	25SEP00	15DEC00	4	
70240	Equipment/Supplies Procurement	09	9	N	25SEP00	15DEC00	4	

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- **FACILITY CHARACTERIZATION**
- **PROJECT PLANNING**
- Facility Walkdowns
- Cost & Schedule Estimates
- **Key Plans**
- Engineering
- PROJECT EXECUTION PLANNING
- **Work Control**
- **Activity Authorizations**
- **Procurement**
- Personnel Resources



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FACILITY CHARACTERIZATION

- Complete Scoping/Historical Site Assessment
- gaps and the need for additional characterization -Evaluate data through DQO process - Assess data Completed 1QFY00
- Reconnaissance Level Characterization Package
- Purpose: Defines details for facility characterization to Characterization Protocols - Completed 2QFY00 implement the requirements in the D&D
- Reconnaissance Level Characterization Report
- Purpose: Prepared and issued to DOE and CDPHE to confirm facility classification-issued 3QFY00
- Customer: LRA



FACILITY WALKDOWNS

- Walkdowns
- composition, etc. Walkdown of the facility to support Purpose: Develop detailed data on activities by IWCP package, including take-offs, task methods, crew the RLC Plan & Report
- Deliverables: Detailed file (hard-copy and powertool) on each IWCP/area with takeoffs, subtasks, etc. - Recon Plan and Report to support the DOP
- **Customer: Internal**



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BUILDING 707 DECOMMISSIONING KEY FY00 ACTIVITIES

COST & SCHEDULE

- **Cost Estimate**
- powertool data; identify activities, take-offs, roll-up by WBS, Purpose: Develop a bottoms-up cost estimate based on

external costs, resources, and scope

- Deliverables: Validatable cost estimate
- **Customer: Internal**
- Schedule
- activity, identify resources, logic, and links with other building Purpose: Develop a bottoms-up schedule by sub-IWCP and site activities
- Deliverables: Resource-loaded schedule, list of activities, external and internal project drivers
- Customer: Internal



KEY PLANS

- PROJECT EXECUTION PLAN (DECOMMISSIONING UPDATE)
- organization, staffing, and programmatic interface data; Purpose: Consolidate scope, cost, schedule, strategy, identifies any holes in project planning
- Deliverables: Draft PEP/update to project PEP
- **Customer: Internal**
- **DECOMMISSIONING OPERATIONS PLAN**
- approval, collaborative process with regulators and DOE, Purpose: Develop project information package for LRA interactions with management and Site programs, meet requirements of RFCA
- Deliverables: Draft DOP
- **Customer: LRA**



KEY PLANS (Continued)

WASTE MANAGEMENT PLAN

- Purpose: Develop detailed bottoms-up estimates, and approaches to deal with difficult-to-manage wastes
- Deliverables: Completed draft WMP
- Customer: Internal (part of the PEP, provided to DOE and regulators for information only)

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ENGINEERING

- **GENERAL ENGINEERING PACKAGE**
- development and BIO revision Identify systems and Purpose: Develop technical basis for IWCP package sequences and engineering controls
- Deliverables: Completed Engineering Package for building
- SIZE REDUCTION ENGINEERING
- specific size reduction facility, including facility modification, Purpose: Conceptual, Title I, and Title II Design for buildingprocurement of equipment, development of requirements, interface with other size reduction efforts, etc.
- Deliverables: Engineering design, IWCP facility modification packages, procurement packages, test plans, etc. I

ACTIVITY AUTHORIZATION

- **AUTHORIZATION BASIS MODIFICATIONS**
- development of the modification of the 707 BIO to cover the decontamination - Coordinate with other D&D projects and Purpose: Provide technical support to SSOC in their decommissioning work covered under stripout and RMRS organizations
- information on methods and techniques, analysis of issues with other BIOs, and modification of techniques to support Deliverables: Description of decommissioning activities, **BIO requirements**
- **Customer: DOE**



ACTIVITY AUTHORIZATION (Continued)

- **MANAGEMENT REVIEW**
- Purpose: Complete evaluation of project readiness to proceed, disposition of CARs, development of review plan, etc.
- Deliverables: Approval to proceed
- Customer: Internal (DOE/Regulatory participation as observers)

WORK CONTROL

- **IWCP PRECURSORS**
- Purpose: Procurement of planning staff, validation of activities, extension of general engineering package, walkdowns of areas, coordination with deactivation, identification of interfacing activities, definition of EOs, etc.
- Deliverables: Infrastructure capable of beginning IWCP development
- IWCP DEVELOPMENT
- Purpose: Final detailed planning to support work, management reviews, IWCP screening, criticality safety reviews, RWP preparation, etc.
- Deliverables: Completed IWCPs including safety screen, training data, etc.



PROCUREMENT

- **Equipment/Supplies/Services Procurement**
- warehousing and transportation costs, equipment/supplies Purpose: All identification of materials, development of specifications and procurement packages, reviews and costs, etc. (not including normal time for procurement audits of suppliers, reviews of proposals, project personnel)
- Deliverables: Procurement plans, procurement packages, review reports, material and equipment ready for use

PERSONNEL RESOURCES

- STAFF ACQUISITION AND TRAINING
- workers in place, including training, worker time to get clearances, mask fits, and some down time based on scheduling inefficiencies. Purpose: Activities involved with identifying and getting D&D

It is intended that staff be partially or completely Q-cleared and that the staff will be managed to avoid significant periods of down-time by scheduling site preparation work and integration with building deactivation or other decommissioning projects

not filled from residue activity phaseout, other D&D projects, etc. Utilize on-site resources where possible; new hires for positions

Deliverables: Staffing plans, training requirements, D&D work team ready to start

BUILDING 707 DECOMMISSIONING STRATEGIES – TOPICS COVERED

- **Activity Prioritization Strategy**
- Dismantlement/Size Reduction Strategy
- Regulatory Strategy
- Ventilation Strategy
- Waste Management Strategy
- Structural Decontamination and Demolition Strategy
- **Authorization Basis Strategy**
- **Utility Shutdown Strategy**
- Staffing Strategy



BUILDING 707 DECOMMISSIONING STRATEGIES -GENERAL

Purpose: Communication

Consultative Process - We need your input

Strategy Document Format

- **Proposed Approach**
- **Issues**
- **Alternatives**
- Impacts/Follow-on Activities



PROPOSED APPROACH

based on logical grouping of work individually prioritized PRIORITY CRITERIA - FIRST FLOOR/GLOVEBOX AREAS as part of the overall set scope some flexibility in work between sets to avoid loss of crew efficiency **IWCP packages sub-elements of Sets**

- Completion of Mission/Deactivation activities
- quantities above the Site's PA closure criteria (TBD) Emphasize activities near the critical path for PA closure; remove equipment containing SNM in
- Begin stripout in G Module (or alternative) for size reduction facilities and staging

- Within a module, the order of stripout will be:
- module to allow for access and isolation of Remove less-contaminated equipment in adjacent Zone I equipment
- Remove as many "transportable" gloveboxes as possible to central size reduction
- ("gloveboxes built around equipment") in Size reduce large or heavy gloveboxes place
- Remove above grade pipe and duct with man-



- Zone 1 ventilation systems will be removed towards the plenums, in the direction of airflow
- Activity float in the project critical path schedule will be considered
- Worker training may require the early size reduction of less-contaminated equipment
- constraints will result in slow initiation of work in FY01 Resource limitations, and space and equipment and FY02

PRIORITY CRITERIA - SECOND FLOOR

- begin in an area while a SNM or Residue operation is occurring in or is supported by that area/equipment Operation/Deactivation – decommissioning cannot
- Activities near the critical path for PA closure will be emphasized
- FY03 activities will focus on minimizing the project critical path in FY04
- Elevator logistics/alternative rigging/lifting plans will be considered in planning/prioritization

DISMANTLEMENT/ SIZE REDUCTION STRATEGY

PROPOSED APPROACH

- Use a central, building-specific size reduction facility reduction will have internal contamination fixed, be located in G Module Gloveboxes awaiting size plastic-wrapped and stored in Zone II or III
- Use the central size reduction for as many gloveboxes as possible; ducting where possible - Coordinate with **Building 776 size reduction**
- Gloveboxes size reduced in place will use engineered ventilation control as much as possible (birdcages)
- Use robots in the central size reduction area and use plasma arc cutting

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DISMANTLEMENT/ SIZE REDUCTION STRATEGY

- as possible for nuclear workers (contamination control) and performed as necessary to provide as safe an environment for protection of the environment (within the building AB) Decontamination or fixing of contamination will be
- aggressive than in Building 779 -lower waste generation Decontamination and volume reduction will be more
- Gloveboxes that are identified as expected to be low-level, or will be cleaned (if necessary), and then size reduced in-place those expected to be able to be decontaminated to low-level, only as necessary to be efficiently disposed of under the surface Contaminated Object provision

DISMANTLEMENT/ SIZE REDUCTION STRATEGY

- before the Zone I boundary is broken This will remove holdup as Attempt to aggressively disassemble the large glovebox internal equipment, for those gloveboxes to be size reduced in place, soon as possible and make the final size reduction easier -Stripping away the glovebox surface and cutting up the underlying equipment will be the last resort
- Size reduction will use PL-107 for ventilation (PL-106 as alternate)
 - considered (or reconfigured to be) Zone II for size reduction of Second floor size reduction will be done either in-place or in a second-floor manual facility - Second floor ventilation will be second floor Zone I systems
- Lead will be removed from gloveboxes prior to size reduction

PROPOSED APPROACH

- Develop Decommissioning Operations Plan (DOP) to cover all decommissioning activities for Building 707
- Other 707 Cluster buildings will be covered separately IM/IRAs, RSOPs, PAMs, etc.
- Include all decommissioning wastes as CERCLA wastes except those determined to be processed as SNM and process liquids Define building process (in DOP) for decommissioning waste handling to support the substantive requirements of RCRA
- Attempt early identification of hard-to-treat wastes to allow them to be considered under the Site Treatment Plan or other program
- Avoid use of CDDs; use the DOP sections to cover the closure of the RCRA units in the building
- Use the provisions of RSOPs as much as possible to streamline the DOP

- "hazardous waste" category based on characterization i.e., the waste resulting from the size reduction of a glovebox will no carbon tetrachloride detected or detected at levels below carbon tetrachloride if it can be swiped-sampled, and either not be mixed despite its operational history of handling Develop an approach to remove gloveboxes from the an established trigger
- necessary, RFCA indicates this will be tasked to regulators No separate environmental permits will be developed - if
- The Reconnaissance-Level Characterization (RLC) and RLC Report will provide the basis for confirming building type

- The project will provide the necessary document to the Site Administrative Record as required by the FDPM
- exchange with regulatory staff through routine meetings The project will ensure consultation and information
- The project will review the Sitewide ARARs document (IGD, Appendix K) and make recommendations to DOE and the regulators; separate sessions will discuss ARARs
- specifically process equipment size reduction, are expected after HEPA filtration, through a stack with approved effluent to be conducted so as to exhaust into a Zone I system and, elevated radioactivity concentrations inside Building 707, Principal dismantlement activities expected to result in monitoring

- use point-source (stack) emission monitoring as long as As the dismantlement nears conclusion, the project will system as agreed to in the Integrated Monitoring Plan feasible; when this is no longer feasible, the Site will activate portions of the existing ambient monitoring
- Water generated during decontamination will be treated as will not be specifically collected; however, any run-off will be collected and sampled prior to discharge (this will not Water used as a mist to suppress dust during demolition process, preferably Building 374; permitted as required). a process waste stream (i.e. through some treatment include stormwater run-off from the demolition area

VENTILATION STRATEGY

PROPOSED APPROACH

- Keep the Zone I plenums active until the gloveboxes and duct that they service are stripped out; then remove the Zone I plenums
- area/rooms that they service, and those rooms/areas are decontaminated to clean/free release, remove the Zone II Once all Zone I equipment and duct is removed from the plenums/ducts
- dismantlement (B Module and C Module), and size reduce in Isolate individual gloveboxes in areas identified for early separate area (G Module)
- operate as a once-through system i.e., take in module Zone De-inert the glovebox system prior to decommissioning and Il air and exhaust through the normal stack after filtration

VENTILATION STRATEGY

- When possible remove gloveboxes towards the plenums, in the direction of airflow
- No duct remediation remove hold-up by removing the ducting in which it is located
- Module E gloveboxes for once-through operation as soon as early dismantlement on second-floor; set up Module D and Schedule certain Kathabar air dryers and equipment for practical
- Use plenum PL-107 (PL-106 alternate) for the size reduction

WASTE MANAGEMENT STRATEGY

PROPOSED APPROACH

- Identify hard-to-dispose of wastes rapidly to assure timely disposition pathway and compliance with applicable consent/compliance orders
- packaging will offset the decontamination cost Do not use gloveboxes) unless there is a reasonable expectation that reasonable packing (i.e., no additional size reduction or Do not decontaminate suspected TRU equipment (e.g., the reduction in the size reduction costs due to SCO additional means to reduce TRU volume other than compaction)
- Large TRU duct will be size reduced to appropriate density
- Usually lead will be removed from gloveboxes and packaged as LLM
- SCO LLW will be direct shipped SCO packaging will be used whenever possible



WASTE MANAGEMENT STRATEGY

- will be processed through Building 374 as long as possible; Disposal of spent decontamination liquid (i.e., bulk water) further liquids will be processed through appropriate temporary treatment process
- revise the waste volume estimate, identify estimates of hardmanagement approach for waste which is different than that provided for by the Site infrastructure - Summary elements The project waste management plan (part of the PEP) will to-dispose of wastes, and cover any specific storage or will be included in the DOP
- TRU/M, 5,113 M³ LLW, 138 M³ LLM, and 2,708 tons Sanitary (not including recycle concrete to be disposed of on-Site) Current waste projections for Building 707 are 1,071 M³
- Beryllium stripout is expected to be disposed of as LLW



STRUCTURAL DECONTAMINATION AND **DEMOLITION STRATEGY**

PROPOSED APPROACH

- The X-Y retriever will be decontaminated to LLW prior to dismantlement using water
- Decontamination of modules will be using high-pressure water or carbon dioxide pellets; aggressive concrete removal will not be necessary on a routine basis
- demolition survey, not as the dismantlement is complete in a Decontamination will be done as a continuous building activity shortly before or in conjunction with the pregiven module
- taken down with cables; structural pieces will be removed in pieces and stacked if possible - Dust suppression methods Building 707 will be taken down as a clean demolition, and will be used

STRUCTURAL DECONTAMINATION AND **DEMOLITION STRATEGY**

- decommissioning activity in conjunction with building The Building 707 slab will be removed as part of the environmental restoration efforts
- Autoclaves in Module H will be decontaminated and removed after building demolition
- equipment-mounted shears, concrete pulverizers, and Smaller cluster buildings will be removed with heavyhoerams
- Clean concrete will be recycled on site Clean reinforcing steel will be recycled as scrap metal

AUTHORIZATION BASIS STRATEGY

PROPOSED APPROACH

- The Building 707 Basis of Interim Operation (BIO) will be updated consistent with the project decommissioning activities and the approach used in Building 771
- removal of all Zone I ducting and conduct of building scans Nuclear safety surveillances will be reduced after the
 - necessary for decommissioning activities while mission activities are being conducted concurrently in separate The BIO will cover cutting and torching activities as modules
- basis, and adjusted based on the MAR in the area/ventilation Combustible loading will be addressed on an area-by-area system
- Minimal USQDs will be required
- BIO adequacy will be addressed using management reviews (no readiness assessments required)



UTILITY SHUTDOWN STRATEGY

PROPOSED APPROACH

- The following utilities will be disconnected after deactivation of all building areas: bulk nitrogen, oxygen analyzers, ...
- The following utilities may be disconnected after Zone completion: criticality alarms, ...
- decontamination: electrical (temporary lights), fire The following utilities will be disconnected after suppression water
- Drains will be identified and considered in all activities to prevent releases to the environment through the sanitary waste system

STAFFING STRATEGY

PROPOSED APPROACH D&D WORKERS

- decommissioning as mission activities decline Roll over mission and deactivation crews for
- Utilize a building-dedicated team of D&D workers (USW)
- Transfer core team from another building (771?) 2-3 D&D workers with Q-clearances for the first building team
- Hire additional non-Q workers and/or post available slots
- Receive RCT support from the building based on long-term commitments



STAFFING STRATEGY

PROPOSED APPROACH (Continued) PLANNING /STAFF

- and training, supplemented by additional expertise as Current closure team will remain in place throughout closure to ensure consistency and reduce turnover necessary
- subcontractor assigned the decommissioning work Initial core of planners from the principal
- Augment from building staff as the mission work declines

Closure Project Issues & Uncertainties **B707 CLOSURE PROJECT**

- or AB issues) activities in parallel within the Facility (due to Operational, Engineering, Ability to perform Mission, Deactivation, & Decommissioning
- Availability & Timeliness of Hiring Additional "Q" Cleared, PSAP'd Resources to support MAA/PA Closure
- Prioritization of Decommissioning activities to support PA Closure
- Size Reduction Efficiencies
- Aggressive schedule for development, review, and approval of the B707 DOP
- Disposition Path for hard to handle wastes, e.g., TRU Organic Liquids
- Onsite Waste Storage

